0030

Canyon Fuel Company, LLC.
Skyline Mine
A Subsidiary of Arch Western Bituminous Group, LLC

Gregg Galecki, Environ. Coordinator
HCR 35, Box 380
Helper, UT 84526
(435) 448-2636 - Office
(435) 448-2632 - Fax

April 4, 2006

Ms. Pam Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

RE: Modification to Water Monitoring Tables, Canyon Fuel Company, LLC, Skyline Mine, C/007/005,

Dear Ms. Grubaugh-Littig:

Please find enclosed with this letter modifications to the Skyline Mine Water Monitoring tables 2.3.7-1 through 2.3.7-2A. As has been discussed with Ms. Dean, the focus of the submittal is to ensure the Water Monitoring tables are consistent with both long term commitments in the M&RP, and the analysis reduction modification submitted in 2005. Efforts were also made to make the tables easier to read and understand. A complete 'overhaul' of the tables will be made in the near future that will provide demonstrations to eliminate specific laboratory analysis that are no longer necessary. The future submittal will potentially allow a significant simplification of the tables.

The current submittal includes clarification items such as adding the letter "W" for all winter sampling, the letter "H" for production well sampling, and listing a site twice if two (2) separate sampling frequencies apply. Additionally, typographic errors such as "1, 2" have been modified to "12" where appropriate. No modifications have been made that are not currently supported in the text of the M&RP.

This submittal includes completed C1 and C2 forms and both eight (8) redline/strikethrough and Eight (8) copies of modified text.

If you have any questions, please call me at (435) 448-2636.

Sincerely,

Gregg A. Galecki

Gregg A. Galecki
Environmental Coordinator, Skyline Mine
Canyon Fuel Company, LLC

enclosures

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APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☒ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☐ Transfer ☐

Permittee: Canyon Fuel Company, LLC
Mine: Skyline Mine **Permit Number:** C/007/005
Title: North Lease Subsidence Submittal
Description, Include reason for application and timing required to implement:
Modification to the M&RP Water Monitoring Tables - Section 2.3

Instructions: If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☐ Yes ☒ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain:
☐ Yes ☒ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☒ Yes ☐ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☐ Yes ☒ No 19. Does the application require or include certified designs, maps or calculation?
☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?

Please attach four (4) review copies of the application. If the mine is on or adjacent to Forest Service land please submit five (5) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Wesley K Sorensen — Print Name
Wesley K Sorensen 4/4/06 — Sign Name, Position, Date
General Manager

Subscribed and sworn to before me this 4 day of April, 2006

Notary Public
My commission Expires: 12/2, 2007
Attest: State of Utah } ss:
County of Carbon

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining
		RECEIVED APR 12 2006 DIV. OF OIL, GAS & MINING

Form DOGM- C1 (Revised March 12, 2002)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Canyon Fuel Company, LLC
Mine: Skyline Mine **Permit Number:** C/007/005
Title: Modification to the M&RP Water Monitoring Tables - Section 2.3

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☐ Add	☒ Replace	☐ Remove	Replace Table 2.3.7-1 through Table 2.3.7.2A, Pages 2-36 through 2-37a in Section 2.3
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.

Eight (8) redline/strikethrough and eight (8) clean copies submitted

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Table 2.3.7-1
Comprehensive Water Quality Analytical Schedule
(Surface and Ground Water Stations)

Streams	Protocol	Comments
CS-1	A 12	
CS-3	A 1, 2, 6, 7	
CS-4	A 1, 2, 6, 7	
CS-6	~~A[1]~~,A, W, 1, 2, 3, 6, 7, 10	
CS-7 (F-5)	A 12	
CS-8	A 12	
CS-9	A 1, 2, 6,7	
CS-10	A 12	
CS-11	A 1, 2, 6, 7	
CS-12	A, W, 1, 2, 3, 6, 7	
CS-13	A, W, 1, 2, 3, 6,7	
CS-14	A, W, 1, 2, 3, 6,7	
CS-15	~~A 13~~ A 10	
CS-16	A 12	
CS-17	A 12	
CS-18	A 12	
CS-19	A 1, 2	
CS-20	A 1, 2	
CS-21	A 1, 2	
CS-22	D ~~11~~10	
CS-23	D ~~11~~10	
MD-1	~~A[1], 2,~~ B 4	(Mine discharge - CS-12 and CS-14 combined)
SRD-1	B 10	(Same as MD-1)
F-9	C 12	
F-10	A 1, 2 and C	
UP&L-10	A 1, 2	
VC-6	~~A[1]~~A, W, 1, 2, 3, 6,7,9	
VC-9	~~A[1]~~A, W, 1, 2, 3, 6,7,8,9	Flow is sum of CS-6 and CS13
VC10	~~A[1]~~A, W, 12	
VC11	D 10	
VC12	D 10	
MC-1	~~A[1]~~A, W, 4	
MC-2	~~A[1]~~A, W, 4	
MC-3	~~A[1]~~A, W, 4	
MC-4	~~A[1]~~A, W, 4	
MC-5	~~A[1]~~A, W, 4	
MC-6	~~A[1]~~A, W, 4	
NL-1 through NL-40	F ~~12~~ 10	North Lease Subsidence Points
WRDS #1	A 1, 2, 6, 7	
WRDS #2	A 1, 2, 6, 7	
WRDS #3	A 1, 2, 6, 7	
WRDS #4	A 1, 2, 6, 7	
EL-1	A 13	Sample spring, summer, and fall for
EL-2	A 13	3 years beginning in 2004

Table 2.3.7-1 (cont.)
Comprehensive Water Quality Analytical Schedule
(Surface and Ground Water Stations)

Springs	Protocol	Comments
S10-1	A 1, 2	
S12-1	A 1, 2	
S13-2	A 12	
S13-7	A 1, 2	
S14-4	A 12	
S15-3	A 12~~, 13 (13 - spring and fall for 3 years starting in 2004)~~	
S15-3	G 13 (13 - spring and fall for 3 years starting in 2004)	
S17-2	A 1, 2	
S22-5	A 12	
S22-11	A 12	
S23-4	A 12	
S24-1 Sulfur Spring	~~A 1, 2,~~ G 13 (13 - spring and fall for 3 years starting in 2004)	
S24-12	A 12	
S26-13	A 12	
S34-12	A 12	
S35-8	A 12	
S36-12	A 12	
2-413	A 12, ~~13 (13 - spring and fall for 3 years starting in 2004)~~	
2-413	G 13 (13 - spring and fall for 3 years starting in 2004)	
3-290	A 12	
8-253	G 13	Sampled spring and fall for 3 years starting in 2004
WQ1-39	A 1, 2	
WQ3-6	A 1, 2	
WQ3-26	A 1, 2	
WQ3-41	A 1, 2	
WQ3-43	A 1, 2	
WQ4-12	A 1, 2	
Wells		
JC-1	~~A 5 and B~~B, H 5	
JC-3	~~A 4 and B~~B, H 4	
ELD-1	B 10	(JC-1 and JC-3 combined)
W79-10-1B	E 11	
W79-14-2A	E 11	
W79-26-1	E 11	
W79-35-1A	E 11	
W79-35-1B	E 11	
W2-1 (98-2-1)	E 11	
W20-4-1	E 11	
W20-4-2	E 11	
W99-4-1	E 11	
W99-21-1	E 11	
W99-28-1	E 11	
W20-28-1	E 11	
91-26-1	E 11	
91-35-1	E 11	

Table 2.3.7-1 (cont.)
Comprehensive Water Quality Analytical Schedule
(Surface and Ground Water Stations)

Field and Laboratory Measurement Protocol

Water Level and Flow Measurements

A	Stream and Springs: high spring (April - June), low summer flow (August - September), and late fall (October - November)
~~A~~W	Stream and Springs: winter season (December - February) monitoring included
B	Stream, Springs, and Wells: monthly discharge measurements, reported in first 7 days following end of month
C	Stream and Springs: monthly flows when accessible.
D	Stream: seasonal discharge measurements (April - June, August - September, October - November)
E	Monitoring well: seasonal water level measurement (April - June, August - September, October - November)
F	Streams: monthly flows June through October, earlier and later if accessible. To be monitored one year prior to, during, and one year following undermining.
G	Springs: high spring and late fall sampling
H	Production Wells: (Quarterly)

Water Quality

1	High spring and late fall (April - June and October - November) water quality field and operational laboratory measurements
2	Low summer flow (August - September) water quality field and operational laboratory measurements
3	Winter season (December - February) water quality field and operational laboratory measurements
4	Seasonal water quality field measurements, TDS, TSS, and total phosphorous
5	Seasonal water quality field measurements, TDS, TSS, and total phosphorous, C14, tritium, and stable isotopes deuterium and oxygen 18
6	Also oil and grease, phenols
7	Total organic carbon and cyanide (low summer flow only)
8	Also total phosphorous
9	Also dissolved oxygen
10	~~Seasonal flow~~ Flow only
11	~~Seasonal water~~ Water levels
12	Field parameters only**
13	Tritium

** Sites with at least two (2) years of lab analysis data will be sampled once every five (5) years for the currently approved laboratory parameters beginning in 2010. If field parameter monitoring indicates any trending changes, regular laboratory analysis may be resumed until trend is adequately characterized.

Table 2.3.7-2
Water Quality Analytical Schedule
Streams and Springs
High Spring (April - June),
Late Fall (October - November), and
Winter (December - February) Flows

Field Measurements
Flow
pH
Specific Conductance
Temperature, Air
Temperature, Water
~~Turbidity~~

Laboratory Measurements
Ammonia
Bicarbonate
Calcium, dissolved
Chloride
Iron, Total ~~and dissolved~~
Magnesium, dissolved
Manganese, total ~~and dissolved~~
Nitrate
Phosphate (Orthophosphate)
Potassium, dissolved
Sodium, dissolved
Sulfate
Suspended Solids
Total Dissolved Solids

Table 2.3.7-2A
Water Quality Analytical Schedule
Streams and Springs
-Low Summer Flow-
(August - September)

Field Measurements
Flow
Dissolved Oxygen
pH
Specific Conductance
Temperature, Air
Temperature, Water
~~Turbidity~~

Laboratory Measurements
Acidity
Alkalinity
Bicarbonate
Ammonia
Barium, Total and dissolved
Boron Total and dissolved
Calcium, dissolved
Chloride
Copper, total and dissolved
Fluoride
Iron, total and dissolved
Lead, total and dissolved
Magnesium, dissolved
Manganese, total and dissolved
Nitrate
Phosphate (Orthophosphate)
Potassium, dissolved
Sodium, dissolved
Sulfate
Suspended Solids
Total Dissolved Solids

Table 2.3.7-1
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(Surface and Ground Water Stations)

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CS-7 (F-5)	A 12	
CS-8	A 12	
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CS-12	A, W, 1, 2, 3, 6, 7	
CS-13	A, W, 1, 2, 3, 6,7	
CS-14	A, W, 1, 2, 3, 6,7	
CS-15	A 10	
CS-16	A 12	
CS-17	A 12	
CS-18	A 12	
CS-19	A 1, 2	
CS-20	A 1, 2	
CS-21	A 1, 2	
CS-22	D 10	
CS-23	D 10	
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VC-9	A, W, 1, 2, 3, 6,7,8,9	Flow is sum of CS-6 and CS13
VC10	A, W, 12	
VC11	D 10	
VC12	D 10	
MC-1	A, W, 4	
MC-2	A, W, 4	
MC-3	A, W, 4	
MC-4	A, W, 4	
MC-5	A, W, 4	
MC-6	A, W, 4	
NL-1 through NL-40	F 10	North Lease Subsidence Points
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Table 2.3.7-1 (cont.)
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(Surface and Ground Water Stations)

Springs	Protocol	Comments
S10-1	A 1, 2	
S12-1	A 1, 2	
S13-2	A 12	
S13-7	A 1, 2	
S14-4	A 12	
S15-3	A 12	
S15-3	G 13 (13 - spring and fall for 3 years starting in 2004)	
S17-2	A 1, 2	
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S24-1 Sulfur Spring	G 13 (13 - spring and fall for 3 years starting in 2004)	
S24-12	A 12	
S26-13	A 12	
S34-12	A 12	
S35-8	A 12	
S36-12	A 12	
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W79-10-1B	E 11	
W79-14-2A	E 11	
W79-26-1	E 11	
W79-35-1A	E 11	
W79-35-1B	E 11	
W2-1 (98-2-1)	E 11	
W20-4-1	E 11	
W20-4-2	E 11	
W99-4-1	E 11	
W99-21-1	E 11	
W99-28-1	E 11	
W20-28-1	E 11	
91-26-1	E 11	
91-35-1	E 11	

Table 2.3.7-1 (cont.)
Comprehensive Water Quality Analytical Schedule
(Surface and Ground Water Stations)

Field and Laboratory Measurement Protocol

Water Level and Flow Measurements

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8	Also total phosphorous
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10	Flow only
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12	Field parameters only**
13	Tritium

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Streams and Springs
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Late Fall (October - November), and
Winter (December - February) Flows

Field Measurements
Flow
pH
Specific Conductance
Temperature, Air
Temperature, Water

Laboratory Measurements
Ammonia
Bicarbonate
Calcium, dissolved
Chloride
Iron, Total
Magnesium, dissolved
Manganese, Total
Nitrate
Phosphate (Orthophosphate)
Potassium, dissolved
Sodium, dissolved
Sulfate
Suspended Solids
Total Dissolved Solids

Table 2.3.7-2A
Water Quality Analytical Schedule
Streams and Springs
-Low Summer Flow-
(August - September)

Field Measurements
Flow
Dissolved Oxygen
pH
Specific Conductance
Temperature, Air
Temperature, Water

Laboratory Measurements
Acidity
Alkalinity
Bicarbonate
Ammonia
Barium, Total and dissolved
Boron Total and dissolved
Calcium, dissolved
Chloride
Copper, total and dissolved
Fluoride
Iron, total and dissolved
Lead, total and dissolved
Magnesium, dissolved
Manganese, total and dissolved
Nitrate
Phosphate (Orthophosphate)
Potassium, dissolved
Sodium, dissolved
Sulfate
Suspended Solids
Total Dissolved Solids